BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Estimate Cost Rs. **600000.00**

Name of Work: Repairs and maintenance to existing borewells in Lottegollahalli, devinagara, muneshwaranagara, LKR nagara and surroundings ward no. 8, kodigehalli.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	A) Rewinding								
1	Lifting of Submersible pump set as per Soecification and direction **(P. 56 / I. 10.3.21) PRED SR (2012-13)**	Each	17				**17**	850.00	**14450.00**
2	Transportation of pumping machineries **(P. 56 / I. 10.3.19) PRED SR (2012-13)**	Each	17				**17**	900.00	**15300.00**
3	Labour charges (over hauling) **P. No. 56 / I No.10.3.22 PRED SR (2012-13)**	Job	17				**17**	550.00	**9350.00**
4	**A) Repairs to Motor:** Rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6 months. **PRED SR (2012-13) P No. 54 / I. No. 10.1) (Above 10 HP upto 20 HP add Rs.150/- for every ½ HP)**								
	A) 10 HP Motor	No.	5				**5**	3700.00	**18500.00**
	upto 5 HP 2500.00								
	for 10 HP (120 x 10) 1200.00								
	Total 3700.00								
	B) 12.5 HP Motor		12				**12**	4750.00	**57000.00**
	upto 5 HP 2500.00								
	for 12.5 HP (150 x 15) 2250.00								
	Total 4750.00								
	B) Replacement of Motor Parts:								
5	Starter (with one year Guarantee) **P No. 55 / I No. 10.3.3 PRED SR (2012-13)**	No.	17				**17**	5050.00	**85850.00**
6	Rotor (with one year Guarantee) **P No. 55 / I No. 10.3.6) PRED SR (2012-13)**	No.	17				**17**	4700.00	**79900.00**
7	Upper Flange **P. No. 56 / I No. 10.3.7 PRED SR (2012-13)**	No.	17				**17**	350.00	**5950.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
8	Lower Housing **P. No. 56 / I No. 10.3.10 PRED SR (2012-13)**	No.	17				**17**	650.00	**11050.00**
9	Carbon Housing **P. No. 56 / I No.10.3.12 PRED SR (2012-13)**	No.	17				**17**	475.00	**8075.00**
10	Thrust bearing block assembly complete with Segment bearing pad.**P. No. 55 / I No.10.3.13 PRED SR (2012-13)**	No.	17				**17**	1150.00	**19550.00**
	C) Replacement of pump parts: The following main components of submersible pump sets requiring replacement.								
11	Oil Seal **P. No. 54 / I No.10.2.3 PRED SR (2012-13)**	No.	17				**17**	125.00	**2125.00**
12	Oil Seal Steel Bush **P. No. 54 / I No. 10.2.4 PRED SR (2012-13)**	No.	17				**17**	150.00	**2550.00**
13	Guide vane **P. No. 54 / I No. 10.2.5 PRED SR (2012-13)**	No.	255				**255**	175.00	**44625.00**
14	Impeller Shell moulded with aluminium Bronze) **P. No. 54 / I No. 10.2.6 PRED SR (2012-13)**	No.	255				**255**	425.00	**108375.00**
15	Discharge outlet (D.O) Bearing D.O Steel Bush **P. No. 55 / I No. 10.2.7 PRED SR (2012-13)**	No.	17				**17**	445.00	**7565.00**
16	Steel Bush **P. No.55 / I No. 10.2.9 PRED SR (2012-13)**	No.	17				**17**	150.00	**2550.00**
17	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) **P. No. 55 / I No. 10.2.11 PRED SR (2012-13)**	No.	17				**17**	950.00	**16150.00**
18	Non – return valve (NRV) assembly complete with rubber 'O' Ring **P. No. 55 / I No. 10.2.14 PRED SR (2012-13)**	No.	17				**17**	1350.00	**22950.00**
19	Cable Guard **P. No. 55 / I No. 10.2.15 PRED SR (2012-13)**	No.	17				**17**	150.00	**2550.00**
20	Brass Filter **P. No. 55 / I No. 10.2.17 PRED SR (2012-13)**	No.	17				**17**	250.00	**4250.00**
21	Re-erection charges of pumping machineries including overhauling and pointing **P. No. 56 / I No. 10.3.20 PRED SR (2012-13)**	Each	17				**17**	950.00	**16150.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
22	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 49/ I No. 29-b(1) **4 Sqm mm of 56 strands 0.3mm dia Group - A KPWD Electrical SR 2010-11**	Mtr							
			1	265.00			**265.00**	151.00	**40015.00**
23	Miscellaneous and Unforeseen Charges	L/S							**5000.00**
								Total	**600000.00**

(Rupees Six Lakhs Only)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of PRED 2012-13.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
W.No. 8.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP
23/12

ADMINISTRATIVE APPROVAL
Accorded For Rs. Six lakhs only
Head of A/c P-1771
Div. Ref. No. 69/16-17 Date 23/12/16
AE
EE(BTP) 23/12

TECHNICAL SANCTION
Accorded For Rs. Six lakhs only
Head of A/c P-1771
Div. Ref. No. 82/16-17 Date 23/12/16
AE
EE(BTP) 23/12